User Manual

380W Waterproof Beam Light

Hint:

If the wire is in the water, do not touch the water source during use.

The wire should be touched after the power is turned off.

Chapter 1 Notes and Installation

1.Maintenance

- This luminaire should be kept dry and avoid working in wet conditions.
- Intermittent use can effectively extend the life of this lamp.
- In order to obtain good ventilation and lighting effects, pay attention to frequently clean the fan and fan network as well as lenses.
- Do not use organic solvents such as alcohol to rub the lamp housing to avoid damage.

2.statement

This product in the factory, the performance is good, packaging complete. All users shall strictly comply with the warnings and operating instructions stated above, any damage caused by misuse is not covered by the Company's warranty, and failures and problems caused by neglect of the operating manual are not the responsibility of the dealer.

This manual is subject to technical changes without notice.

3.Technical parameters

Features: All-magnesium alloy lightweight, small and sophisticated
Frontal voltage: AC100V-240V, 50 / 60HZ
Light Source: Original OSRAM 371 W
Total power: 800 W Color temperature: 6800 ~ 7000 K
Beam angle: parallel beam angle 2 degrees, solid figure out light hole 5.5mm
Linear modulation: independent modulation device, 0-100% linear modulation
High-speed flash: Pulse flash, flash speed 1-20 times per second
Fixed color: 1 fixed color disc containing 14 color sheets + white light, which can have semi-color effect, linear color conversion and two-way rotation of rainbow effect
Static patterns: a fixed pattern board with 14 patterns
Prism: One octave prism + one (8 + 8 + 8) prism, double prisms can overlap
Focusing: using highly accurate glass optical lens with electronic linear HD adjustment
Seven Colors: 1 separate seven color effect
Vaping: Has vaping effect
Quality of color sheets: imported Italian, specialty high-temperature raw materials are used to achieve a strong and shiny brightness. Horizontal / vertical: Horizontal scan angle 540 degrees (16 BIT precision scan), vertical scan angle 270 degrees (16 BIT precision scan)
XY motor: three-phase motor. Three-phase motor driven, powerful, faster, smoother and quieter
Lens size: 156 mm
Dehumidification system: Smart dehumidification and fog removal system effectively guarantees the life of the lamp
Positioning technology: magnetic coding positioning system is used, and magnetic devices are used instead
Channel mode: 16-1/16-2 international standard DMX512 channels
Light bulb function: channel switching on bubbles and turning on a light bulb function
Material: International aviation magnesium alloy
Light body weight: 17.3kg Protection level:IP66

4.Product considerations

- To ensure the service life of the product, do not place the product in wet or leaky places, let alone work in environments above 60 degrees
- Do not place the appliance in a loose or vibrating place.
- To avoid the risk of electric shock, a repair request for this product is made to assist a professional.
- When the lamp is used, the supply voltage change should not exceed10%of the±, the voltage is too high, will shorten the life of the bulb, the voltage is too low, it affects the light color of the bulb.
- After the power is off, it takes 20 minutes to cool down sufficiently with the lamp before it can be powered on again.
- To ensure the normal use of this product, please read this instruction carefully. Signal line connection(DMX).

  Use A Compliant RS-485 Cable: Shielded,120ohm Characteristic Impedance,22-24 AWG,LowTolerance. Do not use microphone cables or cables with different specified characteristics. The terminals must be connected using a 3- or 5-pin XLR male/female connector. (Minimum 1 / 4 W).

Important: Lines cannot come into contact with each other or with metal housings.

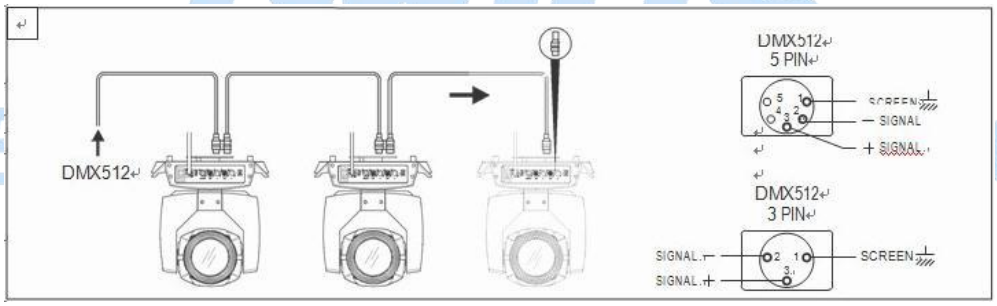

Figure 1 DMX signal line connection diagram

5.Lamp installation

Lamps can be placed horizontally, angled and upside down. Be sure to pay attention to the installation method when hanging and hanging upside down.

As shown in Figure 2, before positioning the lamp, to ensure the stability of the installation site, when reversing the suspension installation, it is necessary to ensure that the lamp does not fall on the support frame, the need to use safety ropes through the support frame and lamp handle for auxiliary hanging to ensure safety,. Prevent lamps from falling and sliding. (the fixture in the figure is an example picture and does not represent the real appearance of this product)

When the lamp is installed and commissioned, pedestrians are not allowed to pass below, and safety ropes are regularly checked for wear and hook screws are loose.

If the suspension installation is not stable, resulting in the fall of the lamp and all consequences, we do not assume any responsibility.

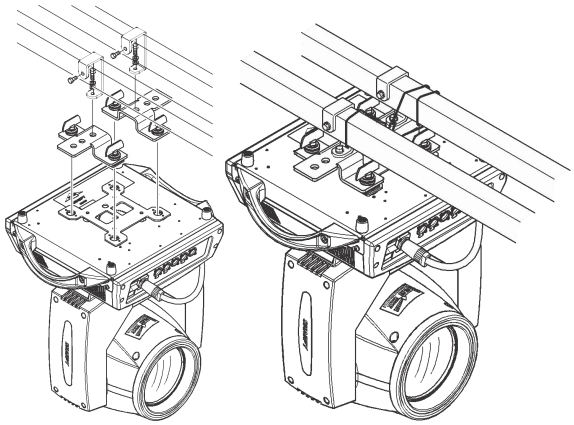

Figure 2 Hanging lighting graphics

Chapter 2 control panel

2.1 Key Instructions

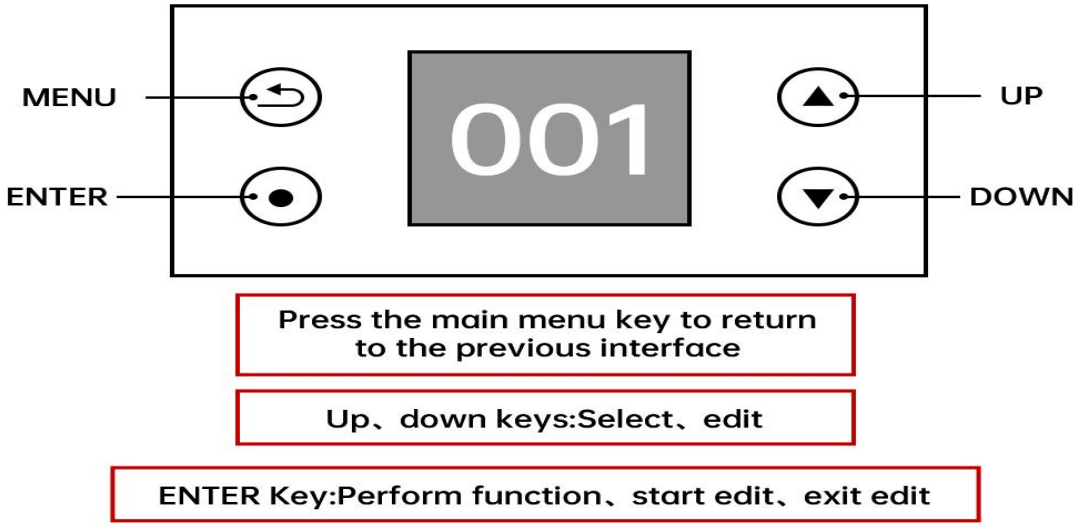

Figure 3 Schematic diagram of key description on the panel

The following takes "Modify DMX address code" as an example to describe the use of keys:

1, if the current is not the main interface, press the "left" key (one or more times) to return to the main interface

2, in the main interface, press the "up" key or "down" key to select the "DMX Settings" button

3. Press the "ENTER" key to enter the "DMX Settings" interface

4, press the "up" key or "down" key to modify the DMX address code

5, press the "ENTER" key to exit the editing state

6. Press the right button on the main interface to enter the calibration interface shortcut key.

7. Note: The shortcut keys at the bottom of the main interface, Chinese/English, screen rollover and reset, can only be manually touched, not pressed.

Figure the main menu diagram

2.2.1 DMX Settings

Key description: Press up or down is +1 or -1 mode;Press the right button is the next one;Press the left and confirm button to save and exit.

Manual instructions: Enter the hundreds place first, then the tens place, then the last place.(For example, to enter the 286 address code, click 2, then 8, and finally 6)

2.2.2 Menu

Main menu	Secondary menu	Three-level menu	Four-level menu	Five-level menu	
DMX Setup	Dmx Address	1 - 512			
	Channel Mode	16-1CH/16-2CH			
	Run Mode	DMX			
		Auto			
		Scene			
Personality	Pan Inverse	No			
		Yes			
	Tilt Inverse	No			
		Yes			
	Tilt Feedback	Off			
		On			
	No Data Mode	Blackout			
		Hold			
	Lamp Mode	Manual			
		Reset			
		Powen on			
	Lamp	Off			
		On			

Display	Display Rotate	Normal			
		Rotate 180			
	Screen Switch	On			
		Off			
	Screen Lock	Off			
		On			
	Language	English			
		中文			
Motor Reset	All	No			
		Yes			
	Tilt	No			
		Yes			
	Effect	No			
		Yes			
Manual Control	Pan	0 - 255			
	。。。	0 - 255			
	Function	0 - 255			
Scene Editing	Scene1	Scene state			
		Hold time			
		Pan			
		。。。			
	。。。	。。。			
	Scene16	。。。			
DMX Live	Pan	0 - 255			
	。。。	0 - 255			
	Function	0 - 255			
Service	Password	Calibration	Motor	Pan	-128 -> 127
				。。。	-128 -> 127
		Factory Default	No		
			Yes		
		Clear Power On Time	No		
			Yes		
		Clear Lamp Hours	No		
			Yes		
Information	Power On Time	xxxxxH			
	Lamp Hours	xxxxxH			
	SW Version	1U：Vx.x.x			
		2U：Vx.x.x			
	RDM UID	0xXXXX-XXXXXXXX			

Chapter 3 Channel Description

9.Channel table

This luminaire channel can view the order in scene mode, which is set on the Address Settings page, as shown in the table below:

Channel table

Channel 16-1CH	NAME	VALUE			DERIF
1	Colour	000	-	004	White
		005	-	009	White +color 1
		010	-	014	color 1
		015	-	019	color 1+color 2
		020	-	024	color 2
		025	-	029	color 2+color 3
		030	-	034	color 3
		035	-	039	color 3+color 4
		040	-	044	color 4
		045	-	049	color 4+color 5
		050	-	054	color 5
		055	-	059	color 5+color 6
		060	-	064	color 6
		065	-	069	color 6+color 7
		070	-	074	color 7
		075	-	079	color 7+color 8
		080	-	084	color 8
		085	-	089	color 8+color 9
		090	-	094	color 9
		095	-	099	color 9+color 10
		100	-	104	color 10
		105	-	109	color 10+color 11
		110	-	114	color 11
		115	-	119	color 11+color 12
		120	-	124	color 12
		125	-	129	color 12+color 13
		130	-	134	color 13
		135	-	139	color 13+color 14
		140	-	144	color 14
		145	-	149	color 14+White
		150	-	202	Fast forward to slow
		203	-	255	Reverse slow to fast
2	Strobe	000	-	003	Off
		004	-	103	Slow to Fast Flash

		104	-	107	Open
		108	-	207	Fade from slow to fast
		208	-	212	Open
		213	-	251	Random flicker from slow to fast
		252	-	255	Open
3	Dimmer	000	-	255	0%-100%
4	Fix Gobo	000	-	004	White
		005	-	009	GOBO 1
		010	-	014	GOBO 2
		015	-	019	GOBO 3
		020	-	024	GOBO 4
		025	-	029	GOBO 5
		030	-	034	GOBO 6
		035	-	039	GOBO 7
		040	-	044	GOBO 8
		045	-	049	GOBO 9
		050	-	054	GOBO 10
		055	-	059	GOBO 11
		060	-	064	GOBO 12
		065	-	069	GOBO 13
		070	-	125	Fast forward to slow
		126	-	130	Stop
		131	-	190	Reverse slow to fast
		191	-	195	Pattern 1 Shake from slow to fast
		196	-	200	Pattern 2 Shake from slow to fast
		201	-	205	Pattern 3 Shake from slow to fast
		206	-	210	Pattern 4 Shake from slow to fast
		211	-	215	Pattern 5 Shake from slow to fast
		216	-	220	Pattern 6 Shake from slow to fast
		221	-	225	Pattern 7 Shake from slow to fast
		226	-	230	Pattern 8 Shake from slow to fast
		231	-	235	Pattern 9 Shake from slow to fast
		236	-	240	Pattern 10 Shake from slow to fast
		241	-	245	Pattern 11 Shake from slow to fast
		246	-	250	Pattern 12 Shake from slow to fast
		251	-	255	Pattern 13 Shake from slow to fast
5	Prism1	000	-	127	No prism 1
		128	-	255	Prism 1 cut in
6	Prism Rot	000	-	127	Prism Angle Adjustment
		128	-	188	Prism fast to slow
		189	-	194	Prism rotation stopped
		195	-	255	Reverse prism from slow to fast
7	Prism2	000	-	127	No prism 2

		128	-	255	Prism 2 cut in
8	Frost / Rainbow	000	-	127	White
		128	-	192	Frost cut in
		193	-	255	Rainbow cut in
9	Focus	000	-	255	Zoom in and out
10	Pan	000	-	255	0-100%
11	Tilt	000	-	255	0-100%
12	Pan Fine	000	-	255	0-100%
13	Tilt Fine	000	-	255	0-100%
14	Pan Tilt Speed	000	-	255	Vertical speed
15	Reset	210	-	215	XY reset
		220	-	235	Head reset
		250	-	255	Reset all motors and hold for 3S
16	Lamp	100	-	105	Off lamp, keep 3S
		200	-	205	On lamp, keep3S

Channel 16-2CH	**NAME**	**VALUE**			**DERIF**
1	Pan	000	-	255	0-100%
2	Tilt	000	-	255	0-100%
3	Pan Fine	000	-	255	0-100%
4	Tilt Fine	000	-	255	0-100%
5	Pan Tilt Speed	000	-	255	Vertical speed
6	Pan Tilt Effect	000	-	031	Null
		The built-in programs above adjust the speed of CH5 from low to high.			
		032	-	063	Circle
		064	-	095	8
		096	-	127	Triangle
		128	-	159	Square-shaped
		160	-	191	Pan
		192	-	223	Tilt
		224	-	255	Wavy
7	Dimmer	000	-	255	0%-100%
8	Strobe	000	-	003	Off
		004	-	103	Slow to Fast Flash
		104	-	107	Open
		108	-	207	Fade from slow to fast
		208	-	212	Open
		213	-	251	Random flicker from slow to fast
		252	-	255	Open
9	Colour	000	-	004	White
		005	-	009	White +color 1
		010	-	014	color 1
		015	-	019	color 1+color 2

		020	-	024	color 2
		025	-	029	color 2+color 3
		030	-	034	color 3
		035	-	039	color 3+color 4
		040	-	044	color 4
		045	-	049	color 4+color 5
		050	-	054	color 5
		055	-	059	color 5+color 6
		060	-	064	color 6
		065	-	069	color 6+color 7
		070	-	074	color 7
		075	-	079	color 7+color 8
		080	-	084	color 8
		085	-	089	color 8+color 9
		090	-	094	color 9
		095	-	099	color 9+color 10
		100	-	104	color 10
		105	-	109	color 10+color 11
		110	-	114	color 11
		115	-	119	color 11+color 12
		120	-	124	color 12
		125	-	129	color 12+color 13
		130	-	134	color 13
		135	-	139	color 13+color 14
		140	-	144	color 14
		145	-	149	color 14+White
		150	-	202	Fast forward to slow
		203	-	255	Reverse slow to fast
10	Fix Gobo	000	-	004	White
		005	-	009	GOBO 1
		010	-	014	GOBO 2
		015	-	019	GOBO 3
		020	-	024	GOBO 4
		025	-	029	GOBO 5
		030	-	034	GOBO 6
		035	-	039	GOBO 7
		040	-	044	GOBO 8
		045	-	049	GOBO 9
		050	-	054	GOBO 10
		055	-	059	GOBO 11
		060	-	064	GOBO 12
		065	-	069	GOBO 13
		070	-	125	Fast forward to slow
		126	-	130	Stop
		131	-	190	Reverse slow to fast
		191	-	195	Pattern 1 Shake from slow to fast
		196	-	200	Pattern 2 Shake from slow to fast
		201	-	205	Pattern 3 Shake from slow to fast
		206	-	210	Pattern 4 Shake from slow to fast
		211	-	215	Pattern 5 Shake from slow to

					fast
		216	-	220	Pattern 6 Shake from slow to fast
		221	-	225	Pattern 7 Shake from slow to fast
		226	-	230	Pattern 8 Shake from slow to fast
		231	-	235	Pattern 9 Shake from slow to fast
		236	-	240	Pattern 10 Shake from slow to fast
		241	-	245	Pattern 11 Shake from slow to fast
		246	-	250	Pattern 12 Shake from slow to fast
		251	-	255	Pattern 13 Shake from slow to fast
11	Prism1	000	-	127	No prism 1
		128	-	255	Prism 1 cut in
12	Prism Rot	000	-	127	Prism Angle Adjustment
		128	-	188	Prism fast to slow
		189	-	194	Prism rotation stopped
		195	-	255	Reverse prism from slow to fast
13	Prism2	000	-	127	No prism 2
		128	-	255	Prism 2 cut in
14	Frost	000	-	127	White
		128	-	192	Frost cut in
		193	-	255	Rainbow cut in
15	Focus	000	-	255	Zoom in and out
16	Function	100	-	105	Off lamp, keep 3S
		200	-	205	On lamp, keep3S
		210	-	215	XY reset
		220	-	235	Head reset
		250	-	255	Reset all motors and hold for 3S

Chapter 4 Common Faults and Precautions for Use

10.Common fault handling

Lamps contain microcomputer circuit boards, high-voltage power supply and other professional components, for your safety and product life, non-professionals should not remove lamps and related accessories without authorization.

1.The bulb is not lit (except forthe LED light source).

Possible causes: The bulb is not completely cooled, or the bulb has a lifetime, as follows:

- Due to abnormal operation, the bulb is not completely cooled, should let the lamp body cool for more than 10 minutes, so that its interior fully restored to normal state, and then start the power supply again can be;
- Check that the bulb has reached service life and replace it with a new one;
- Check that the light bulb and the light-lighting line leak, fall off or come into poor contact;
- Replace the new light-lighting machine.

2.The beam appears dim

Possible causes: Long use of light bulbs or dirty light paths, handled as follows:

- Check that the bulb has reached service life and replace it with a new one;
- Check that the optics or bulbs are clean, that dust is accumulated on the optics such as the bulbs, and that the bulbs and components in the lamps need to be cleaned and maintained regularly.

3.The pattern projection is blurry

- Check that the electron focus channel value is appropriate for the current projection distance.

4.The lamps work intermittently

Reason: The internal line goes into a protected state and is handled as follows:

- Check whether the fan is operating normally or dirty, resulting in an increase in the internal temperature of the lamp;
- Check that the internal temperature control switch is closed;
- Check that the bulb has reached service life and replace the new bulb.

5.The lamp does not accept the control of the console after a normal reset

Possible cause: signal line failure or incorrect luminaire parameter settings, handled as follows:

- Check the starting address code and check the connection of the DMX signal cable (Whether the signal wire and cable are in good condition and the connection of the signal head is loose);
- Add a signal amplifier, plus 120 ohm terminal resistors;

6.The lamp does not start

Can cause: poor power supply lines, handled as follows:

- Check if the insurance on the power input socket is blown off and replace the insurance;
- Lamps are in poor contact with the line due to vibration during long-distance transport
- Check the input power supply, computer board, etc. for plug-in devices.

11.Precautions for use

- Check whether the local power supply meets the product voltage rating requirements, leakage protectors, overcurrent protectors, etc. meet the load requirements;
- Do not use a damaged power cord in the insulation and do not connect the power cord to other wires;
- Lamps are used in strong wind cooling, easy to accumulate dust, must be cleaned once a month, especially the cooling air vents, otherwise it will be blocked by dust accumulation, resulting in poor heat dissipation, so that the lamp abnormal.
- When installing lamps, the fixed screws must be tightened, and equipped with safety ropes, and timely inspection;
- When the lamp is installed and positioned, any point on the surface of the lamp is associated with any flammable and explosive material, maintaining a minimum distance of 10 meters and a distance of 2.5 meters from the irradiant, please do not install the lamp directly on the surface of the combustible substance;
- The continuous working time of the lamp is not recommended to exceed 10 hours, the interval between continuous start lamps should not be less than 10 minutes, otherwise it will not be able to trigger properly because the bulb overheats to protect;
- Use the switch valve closed for not more than 5 minutes, if you need to close the light for a long time, should use the console (lamp gun control channel) to close the lamp gun;
- In order to ensure that multiple luminaires better comply with the scene effect, lamps should not always be in the incomplete current scene, that is, to start the next scene action, it is best not to exceed 3 minutes, to ensure that multiple lamps can run synchronously;
- During use, if the lamp abnormal should stop using the lamp in time to prevent other failures.

12.Notes on the use of RDM

The RDM is an extended version of the DMX512-A protocol, theRemote DeviceManagementprotocol, and the traditional DMX512 protocol communication is one-way communication, based on the RS-485 bus,RS-485 is a time-sharing multipoint, half-duplex protocol, allowing only one port to be output for the host at the same time, so there are a few things to note when using RDM

- To use a console or host device that supports the RDM protocol host;
- To use a bidirectional signal amplifier, the traditional one-way signal amplifier does not apply to the RDM protocol because the RMD protocol requires feedback data, and the use of a one-way amplifier blocks the returned data, resulting in a search for luminaires;
- All luminaires must be set to DMX mode to ensure that there is only one host on the signal line;
- Terminals 2 and 3 of the terminal plug must be inserted between a 120ohm impedance matching resistor, when the signal line is longer, reduce signal reflection will use differential signal more stable, conducive to the quality of communication;
- When a luminaire is controlled by DMX, but cannot R DM search for the luminaire, check the signal amplifier first, and then check the signal line 2and3 lines for poor contact.